

ARTICLE S47

(MOD)

Operator's Certificates

NOC

Section I. General Provisions

NOC S47.1  
to  
S47.6

NOC S47.7 (2) When it is necessary to employ a person without a certificate or an operator not holding an adequate certificate as a temporary operator, his performance as such must be limited solely to signals of distress, distress alerting, urgency and safety, messages relating thereto, messages relating directly to the safety of life and urgent messages relating to the movement of the ship.

NOC S47.8  
to  
S47.17

MOD S47.18 § 5. Each administration may determine the conditions under which personnel holding certificates specified in Appendix S13 may be granted certificates specified in Nos. S47.20 to S47.23.

(MOD)

Section II. Categories of Operator's Certificates

(MOD) S47.19 § 6. (1) There are four categories of certificates, shown in descending order of requirements, for personnel of ship stations and ship earth stations using the frequencies and techniques prescribed in Chapter SVII. An operator meeting the requirements of a certificate automatically meets all of the requirements of lower order certificates.

NOC S47.20  
to  
S47.24

NOC

Section III. Conditions for the Issue of  
Certificates

MOD S47.25 § 7. The requirements of the certificates of this section, for which candidates must show proof of the technical and professional knowledge and qualification, are shown in Table [S47-1].

MOD

TABLE [S47-1]

**Requirements for Radio Electronic and Operator's Certificates**

The relevant certificate is issued to a candidate who has given proof of the technical and professional knowledge and qualifications enumerated below, as indicated by an asterisk in the appropriate box	1st-Class Radio Electronic Certificate	2nd-Class Radio Electronic Certificate	General Operator's Certificate	Restricted Operator's Certificate
Knowledge of the principles of electricity and the theory of radio and of electronics sufficient to meet the requirements specified below:	*	*		
Theoretical knowledge of GMDSS radiocommunication equipment, including narrow-band direct-printing telegraph and radiotelephone transmitters and receivers, digital selective calling equipment, ship earth stations, emergency position-indicating radiobeacons, marine antenna systems, radio equipment for survival craft together with all auxiliary items, including power supplies, as well as general knowledge of the principles of other equipment generally used for radionavigation, with particular reference to maintaining equipment in service.	*			
General theoretical knowledge of GMDSS radiocommunication equipment, including narrow-band direct-printing telegraph and radiotelephone transmitters and receivers, digital selective calling equipment, ship earth stations, emergency position-indicating radiobeacons, marine antenna systems, radio equipment for survival craft together with all auxiliary items, including power supplies, as well as general knowledge of the principles of other equipment generally used for radionavigation, with particular reference to maintaining equipment in service.		*		
Practical knowledge of the operation and knowledge of the preventive maintenance of the equipment indicated above.	*	*		

The relevant certificate is issued to a candidate who has given proof of the technical and professional knowledge and qualifications enumerated below, as indicated by an asterisk in the appropriate box	1st-Class Radio Electronic Certificate	2nd-Class Radio Electronic Certificate	General Operator's Certificate	Restricted Operator's Certificate
Practical knowledge necessary for the location and repair (using appropriate testing equipment and tools) of faults in the equipment mentioned above which may occur during a voyage.	*			
Practical knowledge necessary for effecting repairs in the case of faults in the equipment indicated above, using the means available on board and, if necessary, replacing modular units.		*		
Detailed practical knowledge of the operation of all the GMDSS sub-systems and equipment.	*	*	*	
Practical knowledge of the operation of all the GMDSS sub-systems and equipment which is required while the ship is within the range of VHF coast stations (see NOTE 1).				*
Ability to send and to receive correctly by radiotelephone and direct-printing telegraphy.	*	*	*	
Ability to send and to receive correctly by radiotelephone.				*
Detailed knowledge of the regulations applying to radiocommunications, knowledge of the documents relating to charges for radiocommunications and knowledge of those provisions of the International Convention for the Safety of Life at Sea which relate to radio.	*	*	*	
Knowledge of the regulations applying to radiotelephone communications and specifically of that part of those regulations relating to the safety of life.				*

The relevant certificate is issued to a candidate who has given proof of the technical and professional knowledge and qualifications enumerated below, as indicated by an asterisk in the appropriate box	1st-Class Radio Electronic Certificate	2nd-Class Radio Electronic Certificate	General Operator's Certificate	Restricted Operator's Certificate
Sufficient knowledge of one of the working languages of the Union. Candidates should be able to express themselves satisfactorily in that language, both orally and in writing.	*	*	*	
An elementary knowledge of one of the working languages of the Union. Candidates should be able to express themselves satisfactorily in that language, both orally and in writing. Administrations may waive the above language requirements for holders of a restricted operator's certificate when the ship station is confined to a limited area specified by the administration concerned. In such cases the certificate shall be suitably endorsed.				*

NOTE 1 – A restricted operator's certificate covers only the operation of GMDSS equipment required for GMDSS sea areas A1, and does not cover the operation of GMDSS A2/A3/A4 equipment fitted on a ship over and above the basic A1 requirements, even if the ship is in a sea area A1. GMDSS sea areas A1, A2, A3 and A4 are identified in the International Convention for the Safety of Life at Sea, 1974, as amended.

**NOC**

**Section IV. Qualifying Service**

**MOD S47.26** § 8. (1) The holder of a radiocommunication general operator's certificate or a first- or second-class radiotelegraph operator's certificate is authorized to embark as chief operator of a ship station of the fourth category (see Recommendation ITU-R M.1169).

**MOD S47.27** (2) However, before becoming chief or sole operator of a ship station of the fourth category (see Recommendation ITU-R M.1169) which is required by international agreements to carry a radiotelegraph operator, the holder of a radiocommunication general operator's certificate or a first- or second-class radiotelegraph operator's certificate shall have had adequate experience as operator on board ship at sea.

**MOD S47.28** (3) Before becoming chief operator of a ship station of the second or third category (see Recommendation ITU-R M.1169), the holder of a radiocommunication general operator's certificate or a first- or second-class radiotelegraph operator's certificate shall have had, as operator on board ship or in a coast station, at least six months' experience of which at least three months shall have been on board ship.

**MOD S47.29** (4) Before becoming chief operator of a ship station of the first category (see Recommendation ITU-R M.1169), the holder of a radiocommunication general operator's certificate or a first-class radiotelegraph operator's certificate shall have had, as operator on board ship or in a coast station, at least one year's experience of which at least six months shall have been on board ship.

**ARTICLE S48 - Personnel**

RR	VGE proposal	VGE Report	WRC-95 decision
3979		S48.1	
3980	SUP*	Ap. S13	
3981	SUP*	Ap. S13	
3982	SUP*	Ap. S13	
3983	SUP*	Ap. S13	
3984	SUP*	Ap. S13	
3985	SUP*	Ap. S13	
3986	SUP*	Ap. S13	
3987		S48.2	
3988		S48.3	
3989		S48.4	
3990		S48.5	MOD
3991	SUP WARC-92	--	
3992	MOD	S48.6	MOD
3993		S48.7	
<b>3994 - 4011 not allocated</b>			

**ARTICLE S49 - Inspection of Stations**

RR	VGE proposal	VGE Report	WRC-95 decision
4012		S49.1	
4013		S49.2	
4014		S49.3	
4015		S49.4	
4016		S49.5	
4017		S49.6	
4018		S49.7	
		S49.8	ADD
<b>4019 - 4043 not allocated</b>			

**ARTICLE S50 - Working Hours of Stations**

RR	VE proposal	VE Report	WRC-95 decision
4044		S50.1	
4045		S50.2	
4046		S50.3	
4047		S50.4	
4048		S50.5	
4049		S50.6	
4050		S50.7	
4051		S50.8	
	ADD	S50.9	MOD
4052 - 4070	SUP*	[An. 58]	
4071 - 4095 not allocated			

#### ARTICLE S48

##### **NOC Personnel**

**NOC S48.1  
to  
S48.4**

**MOD S48.5** a) for stations on board ships which sail beyond the range of VHF coast stations, taking into account the provisions of the International Convention for the Safety of Life at Sea: a holder of a first- or second-class radio electronic certificate or a general operator's certificate;

**MOD S48.6** b) for stations on board ships which sail solely within the range of VHF coast stations, taking into account the provisions of the International Convention for the Safety of Life at Sea: a holder of a first- or second-class radio electronic certificate or a general operator's certificate or a restricted operator's certificate.

**NOC S48.7**

#### ARTICLE S49

##### **NOC Inspection of Stations**

**NOC S49.1  
to  
S49.7**

**ADD S49.8** § 4. The frequencies of emissions of ship stations shall be checked by the inspection service to which these stations are subject.

#### ARTICLE S50

##### **NOC Working Hours of Stations**

**NOC S50.1  
to  
S50.8**

**MOD S50.9** § 5. The services of ship stations for international public correspondence shall be provided in accordance with the provisions of Recommendation ITU-R M.1169.



**ARTICLE S51 - Conditions to be Observed in the Maritime Services**

RR	VEGE proposal	VEGE Report	WRC-95 decision
4096		S51.1	
4097	SUP	--	
4098	SUP	--	
4099	(MOD)	S51.2	
4100		S51.3	
4101		S51.4	
4102		S51.5	
4103	SUP	--	ADD S51.5A
4104		S51.6	
4105		S51.7	MOD
4106		S51.8	
4107		S51.9	
4108		S51.10	
4109		S51.11	
4110		S51.12	
4111		S51.13	
4112		S51.14	
4113		S51.15	
4114		S51.16	
4115		S51.17	
4116		S51.18	
4117		S51.19	
4118		S51.20	
4119		S51.21	
4120		S51.22	
4121		S51.23	
4122		S51.24	
4123	SUP Mob-87	--	
4123A		S51.25	MOD
4123B		S51.26	
4123C		S51.27	
4123D		S51.28	
4123E		S51.29	
4123F		S51.30	
4123G		S51.31	
4123H		S51.32	
4123I		S51.33	
4123J		S51.34	
4123K		S51.35	MOD

RR	VGE proposal	VGE Report	WRC-95 decision
4123L		S51.36	
4123M		S51.37	
4123N		S51.38	
4123O		S51.39	
4123P		S51.40	
4123Q		S51.41	MOD
4123R		S51.42	
4123S		S51.43	
4123T		S51.44	
4123U		S51.45	
4123V		S51.46	
4123W		S51.47	
4123X		S51.48	
4123Y		S51.49	
4124		S51.50	
4125		S51.51	
4126		S51.52	
4127		S51.53	
4128		S51.54	
4129		S51.55	
4130		S51.56	
4131		S51.57	
4132		S51.58	
4133		S51.59	
4134		S51.60	
4135		S51.61	
4136		S51.62	
4136A		S51.63	
4137		S51.64	
4138	SUP	--	
4139	SUP Mob-87	--	
4140		S51.65	
4141		S51.66	
4142		S51.67	
4143		S51.68	
4144		S51.69	
4145		S51.70	

RR	VGE proposal	VGE Report	WRC-95 decision
4146		S51.71	MOD
4147		S51.72	
4148		S51.73	
4149		S51.74	
4150		S51.75	
4151		S51.76	
4152		S51.77	MOD
4153		S51.78	
4154		S51.79	
4155		S51.80	
4156 - 4179 not allocated			
FOOTNOTES			
4128.1	SUP Mob-87		
4128.2		S51.54.1	

ARTICLE S51

**NOC Conditions to Be Observed in the Maritime Services**

**NOC Section I. Maritime Mobile Service**

**NOC S51.1 A. General**

**NOC S51.2 to S51.5**

**ADD S51.5A (Use the text of No. 4103.)**

**NOC S51.6**

**MOD S51.7 § 5.** When any ship station transmitter itself cannot be controlled in such a way that its frequency satisfies the tolerance specified in Appendix S2, the ship station shall be provided with a device, having a precision equal to at least one-half of this tolerance, for measuring the frequency of the emission.

**NOC S51.8 to S51.24**

**MOD S51.25 § 12.** The characteristics of the digital selective calling equipment shall be in accordance with ITU-R Recommendations (see Resolution [COM4-4]).

**NOC S51.26 to S51.34**

**MOD S51.35 b)** send and receive class F1B or J2B emissions on an international calling channel (see Recommendation ITU-R M.541-6) in each of the HF maritime mobile bands necessary for their service;

**NOC S51.36 to S51.40**

**MOD S51.41** (2) The characteristics of the narrow-band direct-printing equipment shall be in accordance with Recommendations ITU-R M.476-5, M.625-3 and M.627-1.

**NOC S51.42**  
to  
**S51.64**

**NOC** **Section II. Maritime Mobile-Satellite Service**

**NOC S51.65**  
to  
**S51.70**

**MOD S51.71** § 20. In the case of communication between stations on board aircraft and stations of the maritime mobile service, radiotelephone calling may be renewed as specified in Recommendation ITU-R M.1171 and radiotelegraph calling may be renewed after an interval of five minutes, notwithstanding Recommendation ITU-R M.1170.

**NOC S51.72**  
to  
**S51.76**

**MOD S51.77** d) except as provided in No. **S51.75**, aircraft station transmitters shall comply with the technical characteristics given in Recommendation ITU-R M.489-2;

**NOC S51.78**  
to  
**S51.80**

**ARTICLE S52 - Special Rules Relating  
to the Use of Frequencies**

RR	VGE proposal	VGE Report	WRC-95 decision
4180		S52.1	
4181	SUP Mob-87	--	
4181A		S52.2	
4181B		S52.3	
4182		S52.4	
4183		S52.5	
4184	SUP Mob-83	--	
4184A		S52.6	
4184B		S52.7	
4185	SUP Mob-83	--	
4186	SUP Mob-83	--	
4187		S52.8	
4188		S52.9	
4188A		S52.10	
4189	SUP Mob-87	--	
4190	SUP Mob-83	--	
4191	SUP Mob-83	--	
4192	SUP Mob-83	--	
4193		S52.11	
4194	SUP Mob-83	--	
4195		S52.12	
4196	MOD	S52.13	MOD
4197 - 4212A	SUP*	Ap. S17	
4213		S52.14	
4214		S52.15	
4215		S52.16	
4215A		S52.17	
4216		S52.18	
4217		S52.19	
4218		S52.20	MOD
4219		S52.21	
4220		S52.22	
4221		S52.23	MOD
4222		S52.24	
4223		S52.25	
4224		S52.26	
4225		S52.27	MOD

RR	VGE proposal	VGE Report	WRC-95 decision
4226		S52.28	
4227		S52.29	
4228		S52.30	
4229		S52.31	MOD
4230		S52.32	MOD
4231		S52.33	
4232		S52.34	
4233		S52.35	
4234		S52.36	
4235		S52.37	
4236		S52.38	
4237		S52.39	MOD
4238		S52.40	
4239		S52.41	
4240		S52.42	
4241		S52.43	
4242		S52.44	
4243		S52.45	
4244		S52.46	
4245	SUP Mob-87	--	
4246		S52.47	
4247		S52.48	
4248		S52.49	
4249		S52.50	
4250		S52.51	
4251		S52.52	
4252		S52.53	
4253		S52.54	
4254	SUP Mob-87	--	
4255		S52.55	
4256		S52.56	
4257	SUP Mob-87	--	
4258		S52.57	
4259		S52.58	
4260		S52.59	
4261		S52.60	
4262		S52.61	
4263		S52.62	
4264		S52.63	MOD

RR	VGE proposal	VGE Report	WRC-95 decision
4265	SUP Mob-87	--	
4266		S52.64	
4267		S52.65	
4268		S52.66	
4269		S52.67	
4270		S52.68	
4271		S52.69	MOD
4272		S52.70	
4273		S52.71	
4274		S52.72	
4275		S52.73	
4276		S52.74	
4277		S52.75	
4278		S52.76	
4279		S52.77	
4280		S52.78	
4281		S52.79	
4282		S52.80	
4283		S52.81	
4284		S52.82	
4285		S52.83	MOD
4286	SUP Mob-87	--	
4287		S52.84	
4288	SUP Mob-87	--	
4289	SUP Mob-87	--	
4290	SUP Mob-87	--	
4291		S52.85	
4292 - 4304	SUP Mob-87	--	
4305		S52.86	
4306		S52.87	
4306A		S52.88	
4307		S52.89	
4308		S52.90	
4309		S52.91	
4310		S52.92	
4311		S52.93	
4312		S52.94	
4313		S52.95	
4314		S52.96	



RR	VGE proposal	VGE Report	WRC-95 decision
4315		S52.97	
4315A	SUP Mob-87	--	
4316		S52.98	
4317		S52.99	
4318		S52.100	
4319		S52.101	
4320		S52.102	
4321		S52.103	
4321A	SUP Mob-87	--	
4321B		S52.104	
4321C		S52.105	
4321D		S52.106	
4321E		S52.107	
4322		S52.108	
4323		S52.109	
4323A		S52.110	
4323B		S52.111	
4323C		S52.112	MOD
4323D		S52.113	
4323E		S52.114	
4323F		S52.115	
4323G		S52.116	
4323H		S52.117	
4323I		S52.118	
4323J		S52.119	
4323K		S52.120	
4323L		S52.121	
4323M		S52.122	
4323N		S52.123	
4323O		S52.124	
4323P		S52.125	
4323Q		S52.126	
4323R		S52.127	
4323S		S52.128	
4323T		S52.129	
4323U		S52.130	
4323V		S52.131	
4323W		S52.132	
4323X		S52.133	
4323Y		S52.134	
4323Z		S52.135	

<b>RR</b>	<b>VGE proposal</b>	<b>VGE Report</b>	<b>WRC-95 decision</b>
4323AA		S52.136	
4323AB		S52.137	
4323AC		S52.138	
4323AD		S52.139	
4323AE		S52.140	
A4323F		S52.141	
4323AG		S52.142	
4323AH		S52.143	
4323AI		S52.144	
4323AJ		S52.145	
4323AK		S52.146	
4323AL		S52.147	
4323AM		S52.148	MOD
4323AN		S52.149	MOD
4323AO		S52.150	
4323AP		S52.151	
4323AQ		S52.152	MOD
4323AR		S52.153	MOD
4323AS		S52.154	
4323AT		S52.155	
4323AU		S52.156	
4323AV		S52.157	
4323AW		S52.158	
4323AX		S52.159	MOD
4323AY		S52.160	
4323AZ		S52.161	
4323BA		S52.162	
4323BB		S52.163	
4323BC		S52.164	
4323BD		S52.165	
4323BE		S52.166	
4323BF		S52.167	
4323BG		S52.168	
4323BH		S52.169	
4323BI		S52.170	
4323BJ		S52.171	
4323BK		S52.172	
4323BL		S52.173	
4323BM		S52.174	
4323BN		S52.175	

RR	VGE proposal	VGE Report	WRC-95 decision
4324		S52.176	
4325		S52.177	
4326		S52.178	
4326A		S52.179	
4327		S52.180	
4328		S52.181	
4329	SUP Mob-87	--	
4330	SUP Mob-87	--	
4331		S52.182	
4332	SUP Mob-87	--	
4333	SUP Mob-87	--	
4334	SUP Mob-87	--	
4335		S52.183	
4336	SUP Mob-87	--	
4337	SUP Mob-87	--	
4338		S52.184	
4339		S52.185	
4340		S52.186	
4341		S52.187	
4342		S52.188	MOD
4343		S52.189	
4344		S52.190	
4345		S52.191	
4346		S52.192	MOD
4347		S52.193	
4348		S52.194	
4349	SUP Mob-87	--	
4350		S52.195	MOD
4351		S52.196	
4352		S52.197	
4353		S52.198	
4354		S52.199	
4355		S52.200	
4356		S52.201	
4357		S52.202	
4358		S52.203	
4359		S52.204	
4360		S52.205	
4361	SUP Mob-83	--	

RR	VGE proposal	VGE Report	WRC-95 decision
4362		S52.206	
4363		S52.207	
4364	SUP Mob-83	--	
4365		S52.208	
4366		S52.209	
4367		S52.210	
4367A		S52.211	
4367B		S52.212	
4368		S52.213	MOD
4368A		S52.214	
4369		S52.215	
4370		S52.216	
4371		S52.217	
4372		S52.218	
4373		S52.219	
4374		S52.220	
4375		S52.221	
4376		S52.222	
4377	SUP Mob-87	--	
4378		S52.223	
4379		S52.224	MOD
4380		S52.225	
4381		S52.226	
4382		S52.227	
4383		S52.228	
4384		S52.229	MOD
4385		S52.230	
4386		S52.231	MOD
4387		S52.232	
4388		S52.233	
4389		S52.234	MOD
4390		S52.235	MOD
4391		S52.236	
4392		S52.237	
4393		S52.238	
4394		S52.239	
4395		S52.240	MOD
4396		S52.241	
4397		S52.242	

RR	VGE proposal	VGE Report	WRC-95 decision
4398		S52.243	
4399		S52.244	
4400		S52.245	
4401		S52.246	
4402		S52.247	
4403		S52.248	
4404		S52.249	
4405		S52.250	
4406		S52.251	
4407		S52.252	
4408		S52.253	
4409		S52.254	
4410		S52.255	
4411	SUP Mob-83	--	
4412		S52.256	
4413		S52.257	
4414		S52.258	
4415		S52.259	
4416		S52.260	
<b>4417 - 4440 not allocated</b>			
<b>FOOTNOTES</b>			
4197.1	SUP*	Ap. S17	
4203.1	SUP*	Ap. S17	
4205.1	SUP*	Ap. S17	
4237.1		S52.39.1	SUP
4280.1	SUP Mob-83	--	
4315.1	SUP Mob-87	--	
4343.1		S52.189.1	
4371.1	SUP Mob-83	--	
4373.1	SUP Mob-83	--	
4374.1	SUP Mob-83		
4375.1		S52.221.1	MOD
4375.2		S52.221.2	
4375.3		S52.221.3	
4376.1		S52.222.1	
4376.2		S52.222.2	
4393.1	SUP Mob-83	--	

## ARTICLE S52

### Special Rules Relating to the Use of Frequencies

## Section I. General Provisions

**NOC S52.1  
to  
S52.12**

**MOD S52.13** § 6. (1) Bands exclusively allocated to the maritime mobile service between 4 000 kHz and 27 500 kHz (see Article S5) are subdivided into categories and sub-bands as indicated in Appendix S17.

**NOC S52.14  
to  
S52.19**

### B1. Call and Reply

**MOD S52.20** § 10. (1) The frequency 500 kHz is the international distress frequency for Morse radiotelegraphy (see Appendix S13 for details of its use for distress, urgency and safety purposes).

**NOC S52.21  
and  
S52.22**

**MOD S52.23** *b)* by coast stations to announce by means of Morse telegraphy the transmission of their traffic lists under the conditions provided for in Recommendation ITU-R M.1170.

**NOC S52.24**

**MOD S52.25** (4) Before transmitting on 500 kHz, stations must listen on this frequency for a reasonable period to make sure that no distress traffic is being sent (see Recommendation ITU-R M.1170).

**NOC S52.26**

**MOD S52.27** § 11. (1) The general calling frequency which, except as provided under Recommendation ITU-R M.492-6, shall be used by any ship station or coast station engaged in radiotelegraphy in the authorized bands between 415 kHz and 535 kHz, and by aircraft stations desiring to enter into communication with a station of the maritime mobile service using frequencies in these bands, is the frequency 500 kHz.

**NOC S52.28  
to  
S52.30**

**MOD S52.31** § 13. (1) The frequency for replying to a call sent on the general calling frequency (see No. S52.27) shall be as follows:

- either 500 kHz,
- or the frequency specified by the calling station (see No. S52.29 and Recommendation ITU-R M.1170).

**MOD S52.32** (2) In regions of heavy traffic, coast stations may answer calls made by ship stations of their own nationality in accordance with special arrangements made by the administration concerned (see Recommendation ITU-R M.1170).

**NOC S52.33  
to  
S52.38**

**MOD S52.39** § 17. (1) Ship stations operating in the authorized bands between 415 kHz and 535 kHz shall use working frequencies chosen from the following: 425 kHz in Regions 2 and 3, 458 kHz in Region 1, 454 kHz, 468 kHz, 480 kHz and 512 kHz, except as permitted by No. S4.18. However, when a regional radiocommunication conference has established a frequency plan, the frequencies specified in that plan may be used in the Region concerned.

**SUP S52.39.1**

**NOC S52.40  
to  
S52.62**

- MOD S52.63** (2) So far as is practicable, a coast station shall transmit its calls at specified times in the form of traffic lists on the frequency or frequencies indicated in the List of Coast Stations (see Recommendation ITU-R M.1170).
- NOC S52.64  
to  
S52.68**
- MOD S52.69** § 28. In order to reduce interference on Morse radiotelegraphy calling frequencies, a coast station shall take adequate steps to ensure, under normal conditions, the prompt receipt of Morse radiotelegraphy calls (see Recommendation ITU-R M.1170).
- NOC S52.70  
to  
S52.82**
- MOD S52.83** § 38. Administrations shall ensure, as far as possible, that ship stations under their jurisdiction are capable of keeping their transmission within the limits of the assigned Morse radiotelegraphy channels (see Appendix S2).
- NOC S52.84  
to  
S52.111**
- MOD S52.112** § 51. The characteristics of the digital selective-calling equipment shall be in accordance with the relevant ITU-R Recommendations (see Resolution [COM4-4]).
- NOC S52.113  
to  
S52.147**
- MOD S52.148** b) subject to the provisions of No. S52.149, one of the international digital selective-calling frequencies indicated in Recommendation ITU-R M.541-6.
- MOD S52.149** (2) The international digital selective-calling frequencies indicated in Recommendation ITU-R M.541-6 may be used by any ship station. In order to reduce interference on these frequencies, they shall only be used when calling cannot be made on nationally assigned frequencies.
- NOC S52.150  
and  
S52.151**



- MOD S52.152** b) subject to the provisions of No. **S52.153**, one of the international digital selective-calling frequencies indicated in Recommendation ITU-R M.541-6.
- MOD S52.153** (2) The international digital selective-calling frequencies indicated in Recommendation ITU-R M.541-6 may be assigned to any coast station. In order to reduce interference on these frequencies, they may be used as a general rule by coast stations to call ships of another nationality, or in cases where it is not known on which digital selective-calling frequencies within the bands concerned the ship station is maintaining watch.
- NOC S52.154**  
to  
**S52.158**
- NOC** E2. Call and Acknowledgement
- MOD S52.159** § 71. (1) The frequency 156.525 MHz is an international frequency in the maritime mobile service used for distress, urgency, safety and calling by digital selective-calling techniques (see Nos. **S33.8** and **S33.31**, Appendix **S15** and Recommendation ITU-R M.541-6).
- NOC S52.160**  
to  
**S52.187**
- MOD S52.188** (4) Transmissions in the bands 2 170 - 2 173.5 kHz and 2 190.5 - 2 194 kHz with the carrier frequency 2 170.5 kHz and the carrier frequency 2 191 kHz, respectively, are limited to class J3E emissions and are limited to a peak envelope power of 400 W. However, on the frequency 2 170.5 kHz and with the same power limit, coast stations may also use class H2B emissions when using the selective calling system defined in Recommendation ITU-R M.489-2 and exceptionally, in Regions 1 and 3 and in Greenland, may also use class H3E for safety messages.
- NOC S52.189**  
to  
**S52.191**